

CLAIMS

What is claimed is:

1. A method of utilizing a memory of a printer printing using emulation information stored in a first or a second memory, the method comprising:

storing emulation information selected from among a plurality of emulation information stored into the first memory into a predetermined storage area of the second memory when the printer is initialized;

analyzing a type of emulation information of printing data transmitted to the printer;

determining whether a type of the emulation information stored into the predetermined storage area of the second memory matches the type of the emulation information analyzed; and

if the type of the emulation information stored into the predetermined storage area does not match the type of the emulation information analyzed, retrieving an emulation information type from the first memory matching the type of the emulation information analyzed and storing the retrieved emulation information into the predetermined storage area of the second memory.

2. The method of claim 1, wherein the predetermined storage area of the second memory has a storage capacity to store a biggest size emulation information from among the plurality of emulation information stored in the first memory.

3. A printer memory utilization apparatus printing using emulation information stored in a first or a second memory, the apparatus comprising:

an emulation information retrieving unit that retrieves emulation information from among a plurality of emulation information stored into the first memory and stores the retrieved emulation information into a predetermined storage area of the second memory;

a printing data analyzing unit that analyzes a type of emulation information of received printing data to support printing the received printing data and outputs the type of the emulation information analyzed; and

an emulation information comparing unit that compares a type of the emulation information stored into the predetermined storage area of the second memory with the type of the emulation information analyzed and outputs a comparison result,

wherein the emulation information retrieving unit retrieves an emulation information type from the first memory matching the type of the emulation information analyzed, in response to the comparison result, and stores the retrieved emulation information into the predetermined storage area of the second memory.

4. The apparatus of claim 3, wherein the predetermined storage area of the second memory has a storage capacity to store a biggest size emulation information from among the plurality of the emulation information stored in the first memory.

5. The apparatus of claim 3, wherein the first memory is a read only memory (ROM) and the second memory is a random access memory (RAM).

6. The apparatus of claim 3, wherein the emulation information retrieving unit retrieves the matching emulation information type from the first memory, if according to the comparison result the emulation information type of the received printing data does not match the emulation information type stored in the predetermined storage area of the second memory.

7. A printer, comprising:
a first memory storing a plurality of deactivated printer emulation information;
a second memory storing active emulation information; and
a programmed computer processor performing a process, comprising:
analyzing a type of emulation information of received print data,
determining whether a type of the active emulation information matches the analyzed emulation information type of the received print data, and
storing in the second memory, from the deactivated emulation information stored in the first memory, an emulation information type matching the analyzed emulation information type of the received print data according to the determining, as a new activated emulation information.

8. The printer of claim 7, wherein the first memory is a non-volatile memory and the second memory is a volatile memory.

9. The printer of claim 7, wherein the plurality of deactivated emulation information stored in the first memory are in compressed or uncompressed form, and

the programmed computer processor retrieves compressed deactivated emulation information from the first memory, decompresses the retrieved deactivated emulation information, and stores the retrieved decompressed deactivated emulation information in the second memory as the new activated emulation information.

10. A printer, comprising:

a programmed computer processor activating and deactivating printer emulation modes in a predetermined random access memory area in response to emulation information type of received print data.

11. The apparatus of claim 3, wherein the plurality of emulation information stored in the first memory are in compressed or uncompressed form and the emulation information retrieving unit decompresses compressed emulation information retrieved from the first memory and stores the retrieved decompressed emulation information in the predetermined storage area of the second memory.